

**DIVISION OF ENVIRONMENTAL HEALTH  
SOLID WASTE PROGRAM  
610 UNIVERSITY AVENUE  
FAIRBANKS, AK 99709-3643**  
<http://www.state.ak.us/dec>

**Telephone: (907) 451-2174  
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**File Number: 350.15.004**

February 1, 2001

**CERTIFIED MAIL - RETURN RECEIPT REQUESTED # 7000-0520-0025-2109-5068**

Mr. Jacob Kagak, Director  
Department of Municipal Services  
North Slope Borough  
P.O. Box 69  
Barrow, AK 99723

**Re: Kaktovik Landfill, Solid Waste Disposal Permit 0031-BA015**

Dear Mr. Kagak:

The Department of Environmental Conservation has completed its evaluation of your request for renewing a solid waste disposal permit, to allow for the operation and maintenance of a Class III municipal solid waste landfill near Wainwright, Alaska in Sections 7 & 8, Township 15 North, Range 31 West, Umiat Meridian, and legally described as Tract B, Plat 85-8, Barrow Recording District, Alaska. The Department is issuing this permit in accordance with AS 46, 18 AAC 15, and 18 AAC 60. Please review the conditions and stipulations in the permit and ensure they are all understood. This permit is effective upon issuance and expires **January 31, 2006.**

Any person who disagrees with this decision may appeal the decision by requesting an adjudicatory hearing, using the procedures contained in 18 AAC 15.200-310. Hearing requests must be delivered to the Commissioner of the Department of Environmental Conservation, 555 Cordova Street, Anchorage, AK 99501 within thirty (30) days of receipt of this letter. Please also a copy of any hearing requests to DEC's Fairbanks Office.

If a hearing is not requested within thirty (30) days, the right to appeal is waived. Even if an adjudicatory hearing has been requested and granted, all permit conditions remain in full force and effect.

Sincerely,

Heather T. Stockard  
Solid Waste Program Manager

HTS/DS (F:\EH\SW\2001\0031-BA015 Kaktovik permit.doc)

Enclosure: Permit 0031-BA015

cc w/enc: Kerri Martin, Travis Peterson Environmental Consulting, Inc. - Fairbanks  
Trustees for Alaska/Anchorage

**ALASKA DEPARTMENT  
OF  
ENVIRONMENTAL CONSERVATION  
DIVISION OF ENVIRONMENTAL HEALTH  
610 UNIVERSITY AVENUE  
FAIRBANKS, ALASKA 99709-3643**

**SOLID WASTE DISPOSAL PERMIT**

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Permit: **0031-BA015**

Date: February 1, 2001

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This Solid Waste Disposal Permit is issued to the North Slope Borough for the operation and maintenance of a Class III Municipal Solid Waste Landfill near Kaktovik, Alaska, located in Section 25, Township 9 North, Range 33 E., Umiat Meridian, and legally described as Plat 97-1, Barrow Recording District, Alaska. This permit is subject to the conditions and stipulations contained in Appendices A and B, which are incorporated herein by reference.

This permit is issued under provisions of Alaska Statute 46.03, the Alaska Administrative Code, as amended or revised, and other applicable State laws and regulations.

This permit is effective upon issuance and expires **January 31, 2006.** It may be terminated or modified in accordance with AS 46.03.120.

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Heather T. Stockard  
Solid Waste Program Manager

## **APPENDIX A - SPECIFIC CONDITIONS**

### **I. SITE DEVELOPMENT**

The permit holder shall:

- A. Comply with the following permit conditions, as well as the designs and plans in the permit application dated September 29, 2000 and the amendment dated December 6, 2000. Apply in writing for a permit modification if any changes to the permit are needed. Changes to the permit are not in effect until approved in writing by the ADEC Solid Waste Program.
- B. Make sure that all operations adjust to fit the volume of waste produced by the community and are done in a manner that will make it easy to close the landfill.
- C. Keep a distance of 50 feet between the property boundary and the edge of all active and closed disposal areas. Berms can be located within this 50-foot distance but the edge of the disposal cell should be greater than 50 feet from property boundaries.
- D. Maintain a separate area for the disposal of honey bucket waste at the site. Honey bucket waste will only be placed in this designated area.
- E. Grade and fill the landfill as needed to keep surface water away from active and closed disposal areas. Maintain ditches and berms as needed to keep surface water away from the entire landfill.
- F. Post and maintain an easy-to-read sign at the site with the following information:
  - Landfill Name
  - Operator/Owner Name
  - Conditions for Use
  - Emergency Phone Numbers
- G. Post and maintain a sign at the entrance to the site that lists items that may not be disposed of in the landfill: oily wastes, acids, batteries, solvents, animal and fish remains, sewage sludge, medical waste, hazardous materials, explosives, radioactive wastes, medical waste, or any other waste the Borough chooses not to accept.
- H. Post and maintain easy-to-read signs that direct users to different areas within the landfill, such as the active dumping area and the honey bucket area. If the public uses the landfill when no attendant is on-site, post and maintain easy-to-read signs that describe rules for each area of the landfill.

I. SITE DEVELOPMENT (continued)

- I. Make sure the site is managed in a way to prevent attracting wild and domestic animals to the site.
- J. Install and maintain a fence and a locking gate to control the site and wildlife access. The gate will be unlocked only during the operating hours established by the Borough. Access to the site will be restricted to the hours of operation or a special call out basis.

II. SITE OPERATION

The permit holder shall:

A. General Operating Procedures

- 1. Make sure the only waste accepted at this site are domestic and commercial solid waste, ash, honey bucket waste and construction and demolition wastes by permission of the Borough only.
- 2. Make sure the public is aware of the rules and operations plan for the landfill. Make sure that public access to the site is controlled to reduce public health and safety.

B. Burial

- 1. Gather all loose debris and place within the working face (the area of exposed waste). Compact waste in a layer no deeper than 2 feet using 3 to 5 passes of the bulldozer or compaction equipment before placing cover on the waste.
- 2. Cover waste with a minimum of **six inches** of compacted soil every week during the summer months as long as the soils are workable.
- 3. Compact and cover waste every two weeks during the winter months. Cover compacted waste with a minimum of **6 inches** of soil as soon as soils are workable in spring.
- 4. Make sure solid wastes are not placed in surface waters. Remove any collected surface water immediately. Do not allow surface water to collect in contact with the wastes for a period greater than 7 days. Test water if not removed in a timely manner and if safe, pump water into sewage lagoon.

B. Burial (continued)

5. Make sure that the width of the working face does not exceed **30 feet** in width and the height does not exceed **5 feet**. Keep the working face as small as practical to reduce windblown litter and attraction of birds and animals.
6. Make sure that waste oils or oily wastes are managed in accordance with 40 CFR 279. Oil filters must be hot drained and crushed or incinerated prior to disposal.
7. Make sure large containers such as barrels and drums are empty of fluids, crushed, and flattened before burial. All fluids removed from drums will be properly disposed of in accordance with all applicable State and Federal laws, including but not limited to, RCRA, the Clean Water Act, the Clean Air Act, Title 46 of Alaska Statutes and 18 AAC 60.
8. Make sure scrap vehicles or automobiles have been drained of all petroleum products and coolants before placing in the landfill. Make sure any lead-acid batteries have been removed prior to disposal at the site.

C. Burning

1. Prohibit open burning on the working face and immediately extinguish any fires that occur on the working face.
2. Notify the Department of Environmental Conservation, Fairbanks Office, at 451-2108 within 24-hours of a fire that occurs on the working face.
3. Allow burning of solid waste only in a burn box or other enhanced burning device in a manner that does not create black smoke. Burn waste in the burn device year-round, as weather permits. Keep the burn device in an area that is **100 feet** from the working face.
4. Make sure that an attendant is on duty when waste is burning.
5. Empty the burn box or cage of ash at least **once each week** or more often, as needed to maintain good airflow and prevent smoldering of waste. Bury ash on the working face only when completely cooled.
6. Develop and carry out a plan to separate burnable wastes to make sure waste burns efficiently and without smoldering or generating black smoke.
7. Prohibit burning during periods of high wind, dryness, or other conditions that may cause wildfires or create a public nuisance.

D. Animal Waste

Make sure that animal and fish wastes are coated with a thin layer of hydrated lime and **covered immediately with at least six inches of soil** after each disposal.

E. Septage/Honey Bucket Waste

1. Septic tank pumpings or honey bucket waste will only be placed in the designated and separate disposal area.
2. Maintain a minimum six-foot separation distance between the seasonal high groundwater and base of the disposal area.
3. Add hydrated lime or quicklime in a dry form at the rate of **20 to 30 pounds per 1000 gallons** of honey bucket waste before or as the waste is discharged into the disposal trench. The lime must raise the pH to 12 for a minimum of 30 minutes to make sure pathogen (bacteria) is reduced to a safe and healthy level.
4. Make sure that septic tank pumping waste is covered with at least six inches of soil as soon as the ground has thawed and liquids have drained in the spring, but not later than June 30 of each year. **Cover waste weekly** during the summer for as long as the soils remain workable.
5. Maintain records of the volume (in gallons) of septage or honey bucket waste disposed of at the site each year and the pounds of lime used. Make these records available to the Department for review upon request.

F. Sewage Sludge Disposal

1. Place sewage sludge in the designated and separate disposal area. The sludge disposal area must be separate from the cell for honey bucket and septage wastes.
2. Prior to the first disposal and **once every five years**, make sure that sludge is non-hazardous by testing it using the Toxicity Characteristic Leaching Procedure (TCLP) test (EPA Method 1311) and that it passes the Paint Filter Liquids Test (EPA Method 9095).
3. Collect sewage sludge samples using a quality assurance plan/quality control (QA/QC) plan for collection. A laboratory for which a QA/QC plan has been submitted and approved by the Department shall do sample analyses.

F. Sewage Sludge Disposal (continued)

4. Maintain a record of the results of sewage sludge analyses and supply a copy to the Department within 60 days after receipt of the analytical data.
5. Make sure that sewage sludge will be **limed to maintain a pH 12** for at least 2 hours and **covered immediately** with at least 6 inches of soil or otherwise managed to prevent health hazards and odor nuisances.
6. Maintain records of the volume of sludge disposed of at the site each year and the pounds of lime used. Make these records available to the Department for review upon request.

G. Salvage Area

Maintain a controlled salvage area for public use. Post a sign describing rules for using the salvage area. Clean the salvage area on an **annual** basis and place unused materials in the active cell area for disposal or ship out of the community for recycling. Salvage area cleanups will be done more frequently if the area becomes a litter, nuisance or safety problem.

H. Access

Construct and maintain on-site roads as needed to control traffic safely at the landfill. The site supervisor will make sure that public access to and within the landfill is controlled to reduce health risks and safety hazards. The site supervisor will also make sure that waste is placed in approved locations. Dumping in unauthorized areas violates conditions of this permit and Alaska Administrative Codes.

I. Litter

Collect all windblown and littered refuse from the disposal site and along the access road at least **once each month** during summer months and place it in the working face for burial. Collect all litter on lands within 500 feet of the site, whether windblown or dumped, as frequently as needed to prevent this litter from becoming an aesthetic nuisance.

J. Snow Control

Remove snow from active and closed disposal areas, and from any area as needed to keep potential snowmelt from coming into contact with open or closed waste areas. Deposit any snow removed from the landfill working face area to a place within the landfill. Clean up any litter that appears after the snowmelts. Construct snow fences or berms, as needed, to control blowing snow at the site.



III. PROHIBITIONS AND SPECIAL RESTRICTIONS

The permit holder shall:

- A. Prohibit discharge of firearms at the facility.
- B. Prohibit disposal of regulated asbestos containing material at this site. Non-regulated asbestos containing material may be disposed of on a case-by-case basis, with written approval of the ADEC Fairbanks office, if the site is in compliance with the requirements of 18 AAC 60.490 a (1-3).
- C. Prohibit disposal of hazardous wastes, as defined in 40 CFR 261.3, oily wastes, waste oil, greases, paints, sludges, and chemical wastes at this facility.
- D. Prohibit disposal of lead-acid vehicle batteries at this site. Batteries may be stored temporarily in a designated area in covered, leak-proof storage containers prior to their transport to a recycler or permitted disposal site.
- E. Prohibit storage of used oil, or antifreeze or other bulk liquids at the landfill site. Used oil and other hazardous bulk liquids must be stored in a bermed and lined area located away from the landfill facility.
- F. Prohibit disposal of contaminated soil that contains metals or other chemicals in concentrations that the Department determines poses an unacceptable risk to human health or the environment. Prohibit the disposal of contaminated soil which:
  - 1. Contains concentrations of hazardous substances exceeding one or more of the applicable migration to groundwater levels set in 18 AAC 75.341 Table B1 or Table B2;
  - 2. Exhibits the characteristic of toxicity described in 40 C.F.R. 261.24(a); or
  - 3. Is determined by the department under 18 AAC 75 to pose a migration to surface water threat. Soil contamination that does not exceed migration to groundwater levels may still be considered contaminated soil under 18 AAC 75.
- G. Prohibit the disposal of unsterilized medical waste. Medical waste must be decontaminated or sterilized, and then packaged to prevent a health hazard before disposing of in the landfill.
- H. Prohibit the disposal of bulk liquids at the site. Containers being disposed of must hold one gallon or less of liquid.

IV. MONITORING AND REPORTING

The permit holder shall:

- A. Visually monitor the site **each month** for signs of damage or potential damage to any part of the facility due to settlement, ponding, leakage; frost action, erosion or operations at the site. The visual inspection should include observations for any violations of the permit conditions for the facility. Retain the results of visual monitoring in the operating record for the facility for review during inspections.
- B. Maintain a set of site development and use plans and submit an updated copy to the Department showing current status of site development by **December 31 of each year** of the permit.
- C. Maintain an Operating Record in a readily accessible place in the community or at the landfill containing:
  - 1. A copy of the permit application.
  - 2. A copy of the solid waste disposal permits.
  - 3. Operating plans described in 18 AAC 60.210(b)(9).
  - 4. Monthly visual inspection records.
  - 5. Staff training records (e.g. landfill operations, safety).
  - 6. Records of the volume of wastes received at the landfill showing how the facility meets Class III criteria (i.e. 5 tons/day).
  - 7. Records of the gallons of honey bucket waste and pounds of lime placed in the honey bucket disposal cell.
  - 8. Records of the volume of sludge and pounds of lime placed in the sludge cell.
  - 9. Location restriction demonstrations for minimum distance to runways or flood plains.
  - 10. Annually updated as-built drawings of the landfill.

V. CLOSURE AND RESTORATION

The permit holder shall:

- A. Notify the Department's Fairbanks/Northern Office at least 30 days before the site is to be permanently closed and the equipment withdrawn.
- B. Ensure that a final cover is applied within 90 days after the last waste is deposited, and consists of a minimum of two feet of material. The top six inches will consist of soil, which will promote adequate water retention for the successful revegetation of the site with native vegetation or grasses.
- C. Ensure that the covered areas and drainage control structures are graded to promote and maintain surface water runoff, to prevent ponding and erosion, and to minimize the amount of water entering the solid waste.
- D. Develop and implement a vegetative cover plan for completed areas within the first growing season after closure, using plant species recommended by the Alaska Plant Material Center (907) 745-4469.
- E. Prepare a survey as-built or record drawings showing the location, volume and type of waste deposited at the solid waste disposal site, and a legal description of the landfill property which would be found during a title search. Submit the as built to the ADEC Solid Waste Program, Fairbanks Office, within 60 days of the final closure or expiration date of this permit.
- F. Within 60 days after the entire facility is permanently closed to landfilling, file the survey as-built or record drawings of the area used as a landfill with the State Recorder's Office or other appropriate land records office approved by the Department. At the same time, file a notation informing future property owners that use of the land may not disturb the integrity of the final cover, cap, or other structures or devices installed as part of closure, unless approved by the Department. Submit proof of these recordings to this Department.
- G. Visually inspect the site annually during the spring, for at least 5 consecutive years following closure, to check for signs of damage from settlement or erosion. Maintain a record of the visual inspections documenting any problems and repairs, as necessary and maintain these reports in the operating record for the facility.
- H. Notify the Department at the end of the 5-year post-closure period with a description of the conditions at the site and photographs of the closed landfill area.

## **APPENDIX B - GENERAL PERMIT CONDITIONS**

### **I. ACCESS AND INSPECTION**

The permittee shall allow the Commissioner or her/his representative access to the permitted facilities at reasonable times to conduct scheduled or unscheduled inspections or tests to determine compliance with this permit, State laws, and regulations.

### **II. INFORMATION ACCESS**

Except for information relating to confidential processes or methods of manufacture, all records and reports submitted in accordance with the terms of this permit shall be available for public inspection at the State of Alaska Department of Environmental Conservation, Fairbanks Office, 610 University Avenue, Fairbanks, Alaska 99709-3643.

### **III. CIVIL AND CRIMINAL LIABILITY**

Nothing in this permit shall relieve the permittee from civil or criminal penalties for noncompliance, whether or not such noncompliance is due to factors beyond his control, including, but not limited to, accidents, equipment breakdowns, or labor disputes.

### **IV. AVAILABILITY**

The permittee shall post or maintain a copy of this permit available to the public at the disposal facility.

### **V. ADVERSE IMPACT**

The permittee shall take all necessary means to minimize any adverse impacts to the receiving waters or lands resulting from noncompliance with any limitation specified in this permit, including any additional monitoring needed to determine the nature and impact of the noncomplying activity. The permittee shall cleanup and restore all areas adversely impacted by the noncompliance.

### **VI. CULTURAL OR PALEONTOLOGICAL RESOURCES**

Should cultural or paleontological resources be discovered as a result of this activity, work which would disturb such resources is to be stopped, and the State Historic Preservation Office, Division of Parks and Outdoor Recreation, Department of Natural Resources, is to be notified immediately (907-269-8721).

VII. APPLICATIONS FOR RENEWAL

In accordance with 18 AAC 15.100(d), applications for renewal or amendment of this permit must be made no later than thirty (30) days before the expiration date of the permit or the planned effective date of the amendment.

VIII. OTHER LEGAL OBLIGATIONS

The requirements, duties, and obligations set forth in this permit are in addition to any requirements, duties, or obligations contained in any permit that the Alaska Department of Environmental Conservation or the U.S. Environmental Protection Agency has issued or may issue to the permittee. This permit does not relieve the permittee from the duty to obtain any and all necessary permits and to comply with the requirements contained in any such permit or with applicable state and federal laws and regulations. All activities conducted by the permittee pursuant to the terms of this permit and all plans implemented by the permittee pursuant to the terms of this permit shall comply with all applicable state and federal laws and regulations.

IX. POLLUTION PREVENTION

In order to prevent and minimize present and future pollution, when making management decisions that affect waste generation, the permittee shall consider the following order of priority options: waste source reduction; recycling of waste; waste treatment; and waste disposal.